

## TOPAS summary

Date: 14 / 03 /03  
(DD/MM/YY)

TOPAS-02236  
(p= 775.6 nm)

	wavelength range, nm		tuning curve (*.crv)	Mixer crystals (#)		Mixer rotation axis		Output polariz	DFG Delay crystal	Output mirror (M12)	
i	1546.4	2612.8	774	-	Mixer	-	-	H	Out	In	
s	1100	1550		-	angle	-	-	V	Out	In	
shi	776.6	1100	SHI774	2	120°	H	-	V	Out	In	MixerI
shs	550	775	SHS774	2	120°	V	-	H	Out	In	
sfi	517.201	570	SF774	2	120°	H	-	V	Out	Out	
sfs	455	516.933		3	240°	H	-	V	Out	Out	
4hi	388.2	470	4HI774	2	5 120°	H	V	H	Out	In	MixerI &II
4hs	275	387.5	4HS774	2	5 120°	V	H	V	Out	In	
shsfi	258.601	285	SHSF774	2	6 240°	H	V	H	Out	Out	
shsfs	227.5	258.466		3	6 240°	H	V	H	Out	Out	
df1	2600	13000	DF1774	8	AgGaS <sub>2</sub> 120°	H	-	H	In	In	MixerI
df2	4500	26000	DF2774	9	GaSe 240°	H	-	H	In	In	MixerI

H-horizontal, V-vertical

Note 1: Output mirror MUST be in the beam when DF crystal is used. Fundamental might damage DFG crystal. (cf. GaSe is dark and AgGaS<sub>2</sub> is transparent)

Note 2: DFG Delay crystal (adapter cut) orientation (H or V) - **V (motor is the same to SHI.)**

Note3: Mid-IR filter (ZnSe) must be set at 45 deg and used for DFG separation only.

Note4: All WS (Light Conversion) reflect S polarization.

Empty position for mixer:

Mixer I - 0 deg,

Mixer II - 0 deg.

Signature:

(Donatas Podėnas)